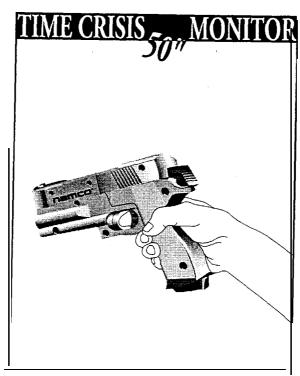
# **namco**° America Inc.





Operator's Manual



APPENDIX C: WIRING DIAGRAM

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#### 1 .O SPECIFICATIONS

Logic Power Supply: 200 Watt switching type

Gun Power Supply: 24 VDC, 110 Watt

Input Power: 120 VAC, 60 Hz, 7 Amps max.

Overall Height: 95", with marquee installed.

Crated Dimensions: Monitor Cabinet Assy: 55" W x 41" D x 87" H

Player Cabinet: 37.5" W x 48.5" D x 48" H

Shipping Weight: Monitor Cabinet Assy: 425 ibs

Player Cabinet: 175 lbs

Monitor: Hitachi 50 inch Model 50UX22BA (S/N 101-327)

Hitachi 50 inch Model 50UX23KA (SIN 328-735)

Mitsubishi 50 inch Model VS-5041/42

(S/N 736-750, 1701-I 850)

Controls: Foot Operated "Action" Pedal

Solenoid - Activated Gun

Convenience Kit: Operator's Manual (1)

(in coin box) Spare Fuse (1)

[Reference Installation Section]

(packed separately)

Accessory Kit

Monitor Accessories: Operator's Manual (1)

(in rear of cabinet) Remote Controller (1)

Note: Specifications subject to change without prior notice. Modifications and/or alterations of the Time Crisis<sup>TM</sup> game with kits or parts not supplied by NAMCO may void the warranty.

WARNING

REMOVAL OF SERIAL NUMBERS **AND/OR** BAR-CODES FROM PRODUCT OR COMPONENTS WILL VOID THE WARRANTY







#### 2.0 INTRODUCTION

TIME CRISIS is a revolutionary new I-player, 3-D polygon gun game featuring a new dual purpose "Action Pedal". Players play the part of Richard Miller, a special agent assigned to rescue Rachel, the presidents daughter who is being held hostage by Sherudo Garo and his hired team of henchmen. Garo threatens to kill Rachel unless he is handed over the throne. It's up to the player to save Rachel and save the government from anarchy!

The game is composed of three areas, each composed of four stages. The time to complete each stage, area and complete game is recorded. A comparative time measurement compares each players time against the recorded best time. Players can gain valuable time by shooting special hard to shoot enemies. Special targets detonate bombs that eliminate numerous enemies with one shot!

TIME CRISIS features Namco's proven high accuracy gun, six times more accurate than conventional guns. It even has a special "blowback" feature that simulates gun recoil.

# Pressina the New Dual Puroose "Action Pedal" Performs Two Functions:

- ★ Duck or dodge to avoid being shot While becoming safe from oncoming shots, players cannot shoot from this position. Look through boxes and crates to prepare for unsuspecting enemies!
- \* Reloads the gun Automatically loads six bullets.

# Two Game Modes:

- \* Story Mode Start at Stage 1 and end with Rachel's rescue. Players have limited time and lives. Game is over when 3 lives are lost or time runs out. Players may continue.
- \* Timed Mode Players may select any stage. Players have limited time but have unlimited lives. When time is up, game is over. There is no continue feature in this mode.

#### 3.0 PRECAUTIONS

#### 3.1 Installation

This game is designed for indoor use only. It must *not* be installed outdoors. **The following conditions must be avoided:** 

- Direct exposure to sunlight, high humidity, direct water contact, dust, high heat or extreme cold.
- Vibration. The game must be installed on a level surface with levelers properly adjusted.

Do not install in **an** area such that the game would present an obstacle in **case** of an emergency (i.e., near fire **equipment** or emergency exists).

## 3.2 Handling

- Before operating the game, make sure that the main AC power hookup includes a safety ground. This will ensure safe operation as well as compliance with the applicable FCC and UL regulations. Measure the AC power line voltage. Verify that the voltage source is between 110 and 125 VAC.
- 2. Before replacing any parts, turn the AC power OFF and unplug the game.
- 3. The game power supply includes areas where 120 VAC is present. Take care at all times to avoid electrical shock whenever inspecting or adjusting the game.
- 4. Do not attempt to repair the Printed Circuit Board (PCB) on-site. It contains sensitive integrated circuit chips that could be easily damaged, even by the small internal voltage of a multimeter. Always return the PCB to your distributor for any repairs. PCB assemblies must be returned as complete sets.
- 5. Always return levelers to the extreme up position before moving the game.
- 6. When moving the game always remove the pedal assembly and pack it separately.

#### WARNING

Do not attempt to repair the TV monitor. There are areas of high voltage inside. If trouble is suspected in the monitor, refer to the troubleshooting guide in the back of this manual.



#### 4.0 INSTALLATION

Note: Shipping damage may void the warranty. In case of shipping damage, contact your distributor and the transportation carrier immediately.

1. Unpack the marquee and accessories box, and identify the following items:

1 ea	pedal assembly
4 ea	button head screws, M5 x 16. blk, w/flat and lock washers
4 ea	hex head bolts, 3/8-16 x 1-1/4" with washers
4 ea	hex head bolts, 3/8-16 x 2", with washers
3 ea	hex head bolts, 1/4-20 x 2", with flat and lock washers
2 ea	cabinet joint right angle brackets
1 ea	extension harness, for dollar bill acceptor. (AP50-04271-00)

- Locate the rear component door panel keys attached to the back of the monitor cabinet. Open and remove the component door panel.
- Verify that the monitor remote controller and manual are in the back of the monitor cabinet. (These will not be needed for day-to-day operation of the game).
- 4. Connect the 12-pin, g-pin, and 4-pin connectors between the 2 cabinets.
- With the monitor cabinet and player cabinet approximately level, position them such that the holes in the joint brackets will line up with the cabinet's holes.
- 6. Install the brackets using the 3/8-16 bolts with washers. The 2 inch long bolts go into the player cabinet, the 1-1/4 inch bolts into the monitor cabinet. Tighten them to about 20 ft-lb.
- 7. Connect the pedal extension harness.
- 8. Position the pedal assembly such that the bracket holes align with the threaded holes in the pedal assembly, and install the 4 ea M5 x 16 screws with washers.
- Place the marquee on top of the monitor cabinet, making sure that the electrical connector is hooked up. Install and tighten the 3 ea 1/4-20 bolts with washers.
- 10. With the game in its installation position, lower the leg levelers,
- Plug in the main AC power cord, and turn the game ON. The power switch is located in the lower rear of the monitor cabinet.



- 12. Perform the **set** up and test procedure. Once this has been successfully completed, reinstall the rear access panel.
- (S/N 101-735 only) For best operation, perform an alignment of the 50 inch monitor. This procedure is outlined in the section entitled "Notes on 50 Inch Monitor".

# 4.1 Set-Up and Test

IMPORTANT: Perform this procedure in the sequence indicated.

- 1. System initialization is performed as follows:
  - a. Open the COIN door to gain access to the Service Panel
  - b. Remove hands/feet from the controls.
  - c. While pressing the SERVICE button, toggle the TEST switch ON.
  - d. Release the SERVICE button.
  - e. The GUN INITIALIZE Menu screen will appear as shown in Figure 1.
  - f. Use the gun to select the [Standard] Initialization, and step on the pedal to enter.
  - g. With the [Standard] Initialization screen displayed, step on the pedal to bring-up the Gun Calibration screen.
  - h. Aim the gun at the 'X', pull the trigger, and return to the Initialization screen.
  - i. Verify gun response by shooting in the entire area bounded in white. If properly initialized, a green target will appear in each location hit.
  - j. Verify that the gun can be successfully fired several times per second.
- 2. Turn the TEST switch OFF, then ON again, and the TEST MENU screen, as in Figure 3, will appear.
- 3. From the MAIN MENU, select and adjust the following set-up options to suit the installation requirements:
  - Coin Options
  - Game Options
  - Sound Test (output level adjustment)

Note: NAMCO recommended options are shown on test screens.

4. Verity proper operation of game controls from the I/O TEST MENU.

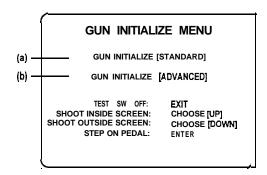


Figure 1: Gun Initialize Menu Screen

(a) See Initialize [Standard] Screen.

IMPORTANT: USE THE [STANDARD] SCREEN TO ADJUST GUN SIGHT DURING NEW INSTALLATIONS OR AFTER SERVICING GUN.

(b) Six screens are provided, to check the gun response in various zones in the game screen.



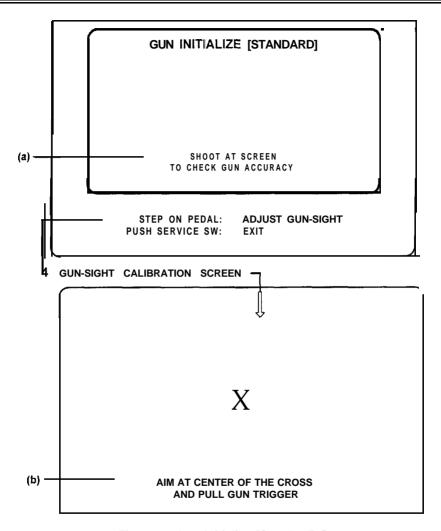


Figure 2: Gun Initialize [Standard] Screen

- (a) If properly initialized, when the gun is fired, the Green Target should register in the entire area outlined in white.
- (b) Return to the initialization screen. Check gun response, in (a) above.

#### Menu

COIN OPTIONS
GAME OPTIONS
I/O TEST
MONITOR TEST
SOUND TEST
ADS DATA
OTHERS

GUN INIT: SERVICE SW + TEST SW [ON]
SHOOT INSIDE SCREEN: CHOOSE [UP]
SHOOT OUTSIDE: CHOOSE [DOWN]
STEP ON PEDAL: ENTER

Figure 3: Menu Screen

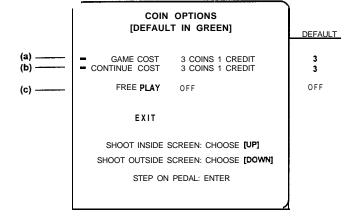


Figure 4: Coin Options Screen

ITEM	AVAILABLE SETTINGS
(a) Game Cost	1-9 Coins
(b) Continue Cost	1-9 Coins
(c) Free Play	OFF/ON

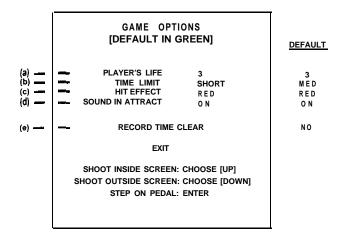


Figure 5: Game Options Screen

ITEM	AVAILABLE SETTINGS
(a) Player's Life	1-9
(b) Time Limit	Very Short, Short, Medium, Long, Very Long
(c) Hit Effect	Red, Green
(d) Sound in Attract	ON, OFF
(e) Record Time Clear	Select YES or NO at the "OK" prompt

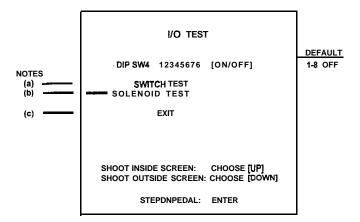


Figure 6: I/O Test Screen

#### Notes:

- (a) See Switch Test Screen.
- (b) See Solenoid Test Screen.
- (c) Returns You to Main Menu.

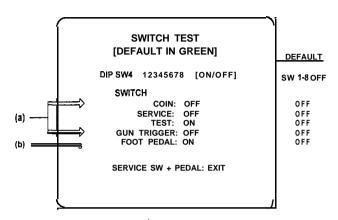


Figure 7: Switch Test Screen

#### Notes:

- (a) ON or OFF in response to switch activation.
- (b) Foot Pedal Switch registers OFF when the pedal is pressed [when foot is on the pedal].

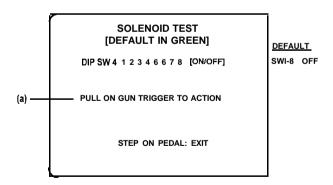


Figure 8: Solenoid Test Screen

#### Notes-

(a) Gun Solenoid "FIRES" once, each time the trigger is pressed.

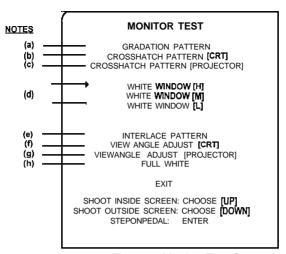


Figure 9: Monitor Test Screen



**Monitor Test Descriptions** 

(a) Gradation Pattern	Four bars (G, R, B, W from top to bottom) with 15 gradations each are displayed.
(b) Crosshatch Pattern [CRT]	Green Grid is displayed. Lines should be reasonably straight, undistorted and uniformly bright across screen. (If not contact Namco. Also, see Troubleshooting notes).
(c) Crosshatch Pattern [Projector]	White Grid is displayed. This can be used to check monitor convergence. Slight non-convergence (R, G or B showing) is normal.
(d) White Window [H, M. L]	Used to check light output (contrast) of screen. WHITE [H] reading should be 40 to 80 ft-L. Monitor contrast adjustments accessible via the Remote Control Monitor Setup Menu.
(e) Interlace Pattern	A pattern of line blocks is displayed, used for indication of vertical hold adjustment. On the center pair of line blocks, the top line of the right block of lines should be aligned with the space between the first and second lines of the left block.
(f) View Angle Adjust [CRT]	Green Screen, with black frame, used at factory to set the VERT height, HORIZ width, and VERT/HORIZ centering. Crosspoint should be in the center of the screen. Horizontal width should be set for slight overscan. If adjustment is required (Ex: New Monitor). Refer to Monitor Adjustment Section.
(g) View Angle Adjust [Projector]	Black Screen, with white frame. Crosspoint should be in center of screen.
(h) Full White	Used to check White Screen light output. (Nominally 15-20 ft-L).

<sup>\*</sup> Note: Push Start to Return from Monitor Test Screen to Monitor Test Menu.

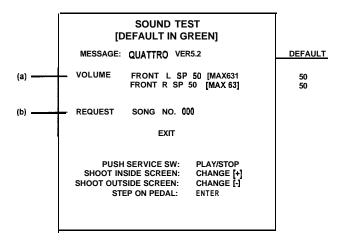


Figure ICI: Sound Test Screen

Available			
Item	Settings		
(a) Volume	1 - 63		
(b) Song No.	000 to 298		

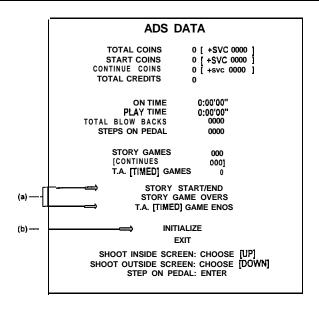


Figure 11: ADS Data Screen

- (a) Additional Data Screens
- (b) Select YES or NO at the ADS Prompt.

'YES' will reset all game data to 0000.

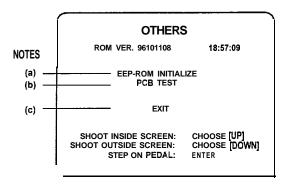


Figure 12: Others Screen

#### Notes:

- (a) Select 'YES' or 'NO' at the OK? Prompt..

  If 'YES' is selected, be sure to recheck gun initialization.
- (b) Video and DSP Tests are provided for factory service personnel.
- (c) To EXIT, push Service Button + Pedal Switch.



#### 5.0 MAINTENANCE

#### 5.1 Monitor Service

The 50 inch monitor does not require regular maintenance, and there are no user-serviceable parts inside.

If a replacement Mitsubishi monitor is supplied for your game, perform the Monitor Adjustment Procedure in APPENDIX A. This will ensure that it is set up for Power-On-Restore and that the screen is properly sized and centered for your Time Crisis, game.

If a monitor malfunction occurs while your game is under warranty, contact your Distributor and/or NAMCO for assistance.

For out-of-warranty repairs, contact your nearest authorized Hitachi or Mitsubishi Service Center.

## 5.2 Monitor Acrylic Cover, Cleaning

When cleaning becomes necessary, follow these steps:

- 1. Rinse cover with lukewarm water.
- 2. Wash gently with mild soap or detergent and lukewarm water, using **a soft** cloth or sponge. DO NOT SCRUB or use brushes or squeegees.
- Rinse again. Dry with a soft cloth or moist cellulose sponge to prevent water spotting.
- 4. To remove wet paint, glazing compound, or grease, rub lightly with a good grade of VM&P naphtha or isopropyl alcohol, then wash and rinse. DO NOT USE GASOLINE.

## **Compatible Cleaning Agents**

Aqueous solutions of soaps and detergents Mr. Clean<sup>2</sup> Fantastik' Formula 409' PineSol 4 Jov<sup>2</sup> Neleco-Placer Top Job<sup>2</sup> Lysol Windex⁵ Organic solvents Aliphatic hydrocarbons Naphtha (VM&P grade) Kerosene Petroleum spirits Alcohols Methanol Isopropyl alcohol Graffiti removal Butyl Cellosolve (For removal of paints, marking pen inks, etc.) Polishing Novus Plastic Polish #1 and #2 Johnson's Paste Wax Mirror Glaze Plastic Polish <sup>2 TM</sup> Procter & Gamble <sup>1</sup> ™ Clorox company "Sterling Druas 5 TM Drakett Products Company ""American Cyanamid



#### 5.3 Gun Removal and Disassembly

#### CAUTION

Always perform the Gun Alignment and Initialization procedure (per section 4.1) after replacement of gun components or assemblies...

## 5.3.1 Opening the Gun

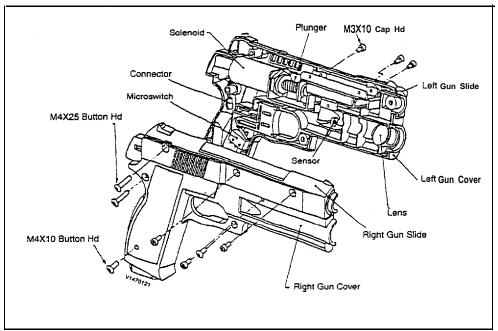


Figure 5-I Opening the Gun

- 1. Remove the four M3 x 10 cap screws and one M4 x 25 button head screw that attach the gun side halves.
- 2. Remove the gun side halves.
- 3. With the gun assembly laying on its left side, remove the three M4 x 10 button head screws, one M4 x 25 button head screw, and one M3 x 10 cap screw.
- 4. Lift the right gun cover off the gun assembly. Be careful not to scratch the lens. [Note: When reassembling the gun, the convex side faces out!]



### 5.3.2 Replacing the Gun Solenoid

1. Remove the gun covers and gun side halves.

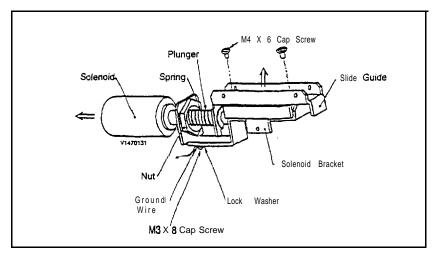


Figure 5-2 Gun Solenoid Assembly

- 2. Disconnect the solenoid connector.
- 3. Remove the M3 x 10 cap screw attaching the solenoid/slide assembly to the left gun cover.
- 4. Remove the M3 x 8 cap screw and washer attaching the ground wire to the solenoid bracket.
- 5. Loosen the solenoid nut.
- 6. Pull the solenoid away from the bracket.
- Remove the two M4 x 6 cap screws attaching the slide guide to the bracket.
- 8. Remove the solenoid plunger and spring.



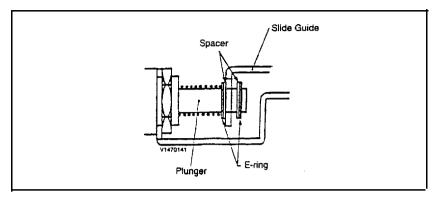


Figure 5-3 Solenoid Plunger Detail

 When reassembling the solenoid, pay particular attention to the order of E-rings and spacers. Make sure the solenoid harness faces downward upon reassembly.

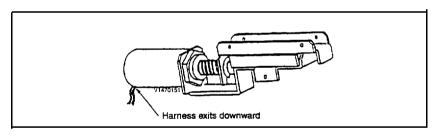


Figure 5-4 Solenoid Reassembly

# 5.3.3 Trigger Switch Replacement

- 1. Remove the gun covers and gun side halves.
- 2. Remove the two screws that attach the microswitch to its bracket.
- Remove the two connectors that attach the trigger microswitch to the gun harness, and replace the switch.
- 4. Upon reassembly, check the condition of the trigger spring.



# 6.0 TROUBLESHOOTING

Problem		Probable Cause		Solution
To video or sound.	1)	No AC power.	1)	Check main AC fuse in rear of cabinet. If fuse is OK, check voltage norose input vide of E.M. I filter. Should be 115-120VAC. If no voltage, then ON/OFF switch is bad, replace. If EMI filter input voltage is good, check voltage at the output (load side) of EMI filter. If no voltage, EMI filter is bad, replace. Verify that monitor
	2)	No DC power.	2)	power cord is plugged in.  Check AC input plug on switching power supply. 'Verify PS switch is ON.  Check DC output voltage at 9-pin connector. RED to BLK should be 5+/15VDC. ORG to BLK should be 12VDC -0/+1.8VDC. If 12VDC is bad, check for output shorts by removing load connectors one at a time (ref. overall wiring diagram in Appendix). If loads are OK, or if 5VDC is out of tolerance. replace power supply. (Note: output is non-adjustable).
No video, but nonitor is powered- up.	1)	Jideo input to monitor is disconnected, or bad video cable.	1)	Verify that S-VIDEO cable is connected between back of monitor and RGB/NTSC PCB (small board on component shelf). Verify that correct input channel is selected on monitor. Should be EXT-I S-VIDEO. Check using remote control INPUT button to toggle through selections.
	2)	Monitor problem.	2)	Verify monitor is OK by selecting ANT Input, using remote control. If OK, snow or raster should appear on screen. If bad, DO NOT ATTEMPT TO REPAIR MONITOR OR THE MANUFACTURER'S WARRANT-Y WILL BE VOIDED. (Note: If warrant) service is required, contact NAMCO through your Distributor. In the U.S., repair service fo your monitor is provided through the manufacturer's nationwide network of authorized TV repair centers. For in-warrantl repairs outside the U.S., contact NAMCC Customer Service for assistance. NAMCC customer Service for assistance. NAMCC creserves the right to repair or replace defective monitors at its discretion. Advance replacemer monitors cannot be provided to locations outside the U.S. and U.S. territories).

**Troubleshooting (continued)** 

Problem		Probable Cause		Solution
No video, but monitor is powered- up (con't)	3)	No DC power.	3)	See above. Verify that P1 is connected on SS22 PCB rack.
	4)	Main PCB problem.	4)	Check cooling fan on PCB rack. Make sure it is operating. Verify that PCB cards are seated properly in rack. Verify that RGB and SYNC signals are present at J9 pins 1,2,3,4 w.r.t. pin 5. NOTE: DO NOT ATTEMPT TO REPAIR PCBs OR WARRANTY WILL BE VOIDED. If main PCB rack is suspected bad, verify by swapping with known good unit. If service is req'd, contact your Distributor.
	5)	VIDEOAMP PCB problem	5)	Verify that J1, 2, and 3 are connected. Verify that 5V and 12VDC is present at J2. Compare input vs. output signals. If no output, replace VIDEOAMP.
	6)	RGB/NTSC PCB problem.	6)	Verify that J3, J4, and S-VIDEO cables are connected. Check for 12VDC at J4. Check for signal on RCA output jack. If no signal, replace PCB.
No audio.	1)	Cables had, or incorrectly connected.	1)	Check connectors J1-J5 on AUDIO PCB (mounted on top of main PCB rack). Check continuity of cables from J2 to RCA jacks on back of monitor. Jacks should be connected to EXT-1 L/R receptacles.
	2)	Sound output set too low.	2)	Adjust audio volume in TEST Mode (SOUND Test). Ref. Set-Up and Test section. Default value is 50.
*	3)	AUDIO PCB problem.	3)	Verify +12VDC on J1 of AUDIO PCB. If the above items check out but still no audio, replace AUDIO PCB.
	4)	Monitor audio circuit or speakers are defective.	4)	Monitor needs service.
Distorted audio.	1)	Volume set too high.	1)	Adjust in SOUND Test mode.
	2)	AUDIO PCB problem.	2)	Replace devices or PCB.
	3)	Main PCB problem.	3)	Main PCB rack requires service.
	4)	Incorrect speaker impedance.	4)	Verify 8 ohm speakers.



# **Troubleshooting (continued)**

Problem		Probable Cause		Solution
Distorted video.	1)	Video, DSP, CPU, or MROM	1)	Reseat cards. If problem persists,
		card problems in main PCB.		PCB set requires service.
	2)	S-VIDEO cable is defective.	2)	Replace cable.
	3)	RGB/NTSC or VIDEO AMP	3)	Check connections to boards. Swap
		PCB problem.		boards with known good units.
	4)	Interference from audio ckt.	4)	Confirm by reducing audio volume. If interference goes away, check wiring
				around Video amp and RGB/NTSC boards. Wires should be well routed.
				If problem persists, try powering Video PCB off isolated +12VDC supply.
	5)	Monitor convergence error.	5)	Re-converge monitor (see service manual for details).
Gun will not shoot targets.	1)	Gun not initialized.	1)	Check initialization section.
10.92.2	2)	Gun sensor bad.	2)	Inspect sensor, replace if sensor is
	′			yellow in the center.
	3)	Gun cable defective.	3)	Repair or replace cable.
	4)	Gun trigger defective.	4)	Check trigger.
	5)	Position PCB trouble.	5)	Check connections, swap with known good PCB.
	6)	Joint PCB.	6)	Check 4-pin connection on Joint PCB.
	7)	Gun or monitor screen dirty.	7)_	Clean.
Gun "Blowback" not working.	1)	Trigger or cable defective, as above.	1)	Check components.
	2)	Gun drive PCB not working (in rear of cabinet).	2)	Check power to board and operation of solid state relay.
	3)	Gun solenoid defective.	3)	Repair or replace gun.
	4)	24V power supply trouble.	4)	Check power supply in rear of monitor cabinet. Replace if defective.
	5)	Gun or monitor screen dirty.	5)	Clean. Once corrected, verify operation of "Blowback" in TEST mode, Solenoid test.
Pedal does not work properly	1)	Pedal microswitch defective or is out of adjustment.	1)	Check switch status in TEST mode, I/O SWITCH test. If problem, remove cover of pedal assy and inspect switch and wiring.
	2)	Pedal plunger is loose, bent, or jammed.	2)	Remove cover and inspect. Apply grease to striker plate and tip during reassembly.

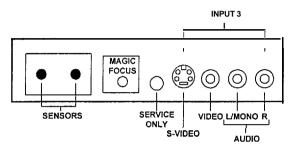


# NOTES ON 50 INCH MONITOR (HITACHI)

#### Alianment

Upon initial installation, or after the game has been moved, the following alignment procedure should be performed.

a. Remove the cover plate located in the lower center of the monitor cover, providing access to the monitor service panel. Locate the remote control unit.



Hitachi Front Service Panel

- b. On the service panel press the Magic Focus button. The monitor will perform a self-test, where it correlates the RGB convergence to values that are stored in memory. Allow the test to run to completion without interruption.
- c. On the monitor remote control, press the AVX button.
  Verify that VIDEO: [S-IN] has been selected. (This sources the video signal from the Namco game-board). The source input is displayed in the upper right corner of the screen.
- d. Re-install the cover plate and place the remote controller in a place where it will not get lost. (Recommend attached to the rear of the monitor).
- e. The Hitachi monitor has been configured for automatic power-on-restore. This means that the monitor will automatically power-up whenever the game's main power supply is turned ON. The remote control is not needed for day-today operation. When "recycling" the main power, always allow at least 10 sec. of OFF time for the circuit to reset.

#### 2. Service

Repair service is provided through the network of Hitachi Electronics authorized service facilities. If the monitor requires service while the game is under warranty, contact your distributor and Namco Customer Service at (800) 326-4263. Repairs will be performed at the service facility nearest you.



# APPENDIX A: MONITOR ADJUSTMENT PROCEDURE (Mitsubishi VS-5041/42)

# **ADJUSTMENT PROCEDURES**

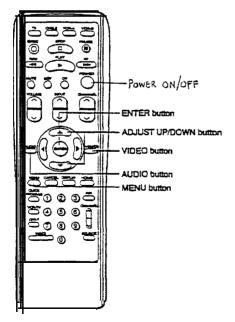
#### WITH MITSUBISHI MODEL 5041 OR 5042

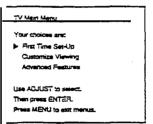
CAUTION: The TV power plug will fit into the the power outlet only one way. DO NOT force the power plug into the power strip.

- 1. Make sure the TV is OFF.
- 2. Plug the Test Fixture S-VI-IS Cable to the DIN adapter of the TV front panel.
- 3. Using the remote control turn the TV ON. Let the TV warm up for a few minutes (3-5 minutes).
- **4.** Press the (↑↓) **INPUT** buttons to change to SYNC 3 (S-VIDEO) on the TV screen.

# 5. Color Display Adjustments:

Press the "Menu" button on the remote control.
 The "TV Main Menu" will appear on the screen.





- Select "First Time Set Up" using the ADJUST (↑↓) buttons and press ENTER button.
- You will see the "First Time Set-Up" screen.
   Select the "Align Colors" using the ADJUST
   (↑ ↓) buttons; then press the Enter button.
- You will see "Align Colors" screen. Press
   "VIDEO" for the first time. You will see
   "WHITE" crosshairs on the screen with ← RED → on top of the crosshairs. At this time you are able to adjust the vertical Red crosshair to line-up with "WHITE" crosshairs; using ADJUST ( → ) to move the vertical crosshair to the Left or Right.
- Press the "VIDEO" button for the second time to advance to the vertical Blue crosshair; using ADJUST ( ) to move the vertical Blue crosshair to Left or Right.
- Press the "VIDEO" button for the third time to advance to the horizontal RED crosshair. Adjust with ADJUST ( ) button.
- Press the "VIDEO" button for the fourth time to advance to the horizontal BLUE crosshair.
   Adjust with ADJUST ( ) button.
- Press the VIDEO button the fifth time to gc back to the "Align Colors Menu". Press "Menu" button to exit the "TV Main Menu".

First Time Set-Up

Set the clock

Memorize channels

Addicates channels

Sat AV Network

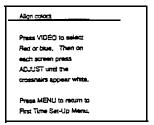
Align colors

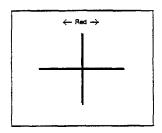
Use ADJUST to select.

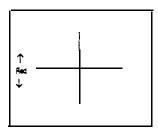
Then press ENTER.

Press MENU to return to

TV.Main Menu.







MAKE SURE BOTH RED AND BLUE ARE ALIGNED AND FORM A WHITE CROSSHAIR.

DO NOT LEAVE THE WHITE CROSSHAIRS FOR A LONG PERIOD OF TIME, SINCE 1 CAN DAMAGE THE PICTURE TUBES.

6. Press the MENU button twice to go back to the "TV MAIN MENU".

#### 7. Power Restore Adjustment:

- Press the "MENU" button to get into the "TV Main Menu".
- Select "Customize Viewing", use "ADJUST
   (↑ ↓) buttons. Press Enter button.
- Select "Use Power Restore" using the ADJUST (↑↓) buttons; then press Enter button.
- The "Use Power Restore" screen will appear.
   Use ADJUST buttons to select "ON" and press
   Enter and then it will automatically return back to the "Customize Viewing" menu. Press
   "Menu" button to return to the "TV Main Menu".

#### TV Main Menu

Your choices are:

 First Time Set-Up Customize Viewing Advanced Features

Use ADJUST to select.
Then press ENTER.
Press MENU to exit menus.

#### Customize Viewing

Rename the inputs Select Language

Use Video mute

▶ Use Power restore

Use Advanced PIP

Use ADJUST to select.

Then press ENTER.
Press MENU to return to

TV Main Menu.

#### Use Power restore

► On

Use ADJUST to select.
Then press ENTER.

Press MENU to return to

Customize Viewing Menu.

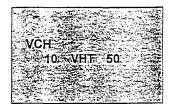
## 8. Circuit Adjustment Mode:

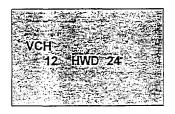
- a. **Press** the "**MENU**" button on the remote control (the TV Main Menu will appear).
- **b.** Press the button **"2", "3", "5", "7"** in that order. (The screen will change to the circuit adjustment mode). If it is not changed, repeat step a and **b** again.
- After these numbers are entered, a text screen and numbers will appear in the middle of left-handed screen.
- d. Press "VIDEO" button to advance to #10, Vertical Height (VHT).
- e. Press ADJUST ( ) arrow to change the adjustment value to "50".
- f. Press "ENTER" button to save the adjustment data in memory. When the "ENTER" button is pressed to save the data, the displays of characters goes red for approx. two seconds and then goes away.
- g. Press "VIDEO" button to advance to # 12, Horizontal Width (HWD).
- h. Press ADJUST (↑↓) arrow to change the adjustment value to "24".
- I. Repeat step f.
- Press "VIDEO" button to advance to # 43, H-Center Position (HPH).
- k. Press ADJUST (↑↓) arrow to change the adjustment value to "9".
- I. Repeat step f.
- m. Press "Menu" twice to get back to "VIDEO" mode.
- n. Adjustment is complete, turn power OFF on both the TV and Test Fixture. And remove S-cable

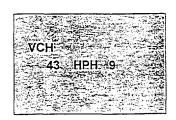
First Time Set-Up

Set the clock
Memorize channels
Add/dielete channels
Set AV Network

Align colors
Use ADJUST to select.
Then press ENTER.
Press MENU to return to
TV Main Menu.







NOTE:

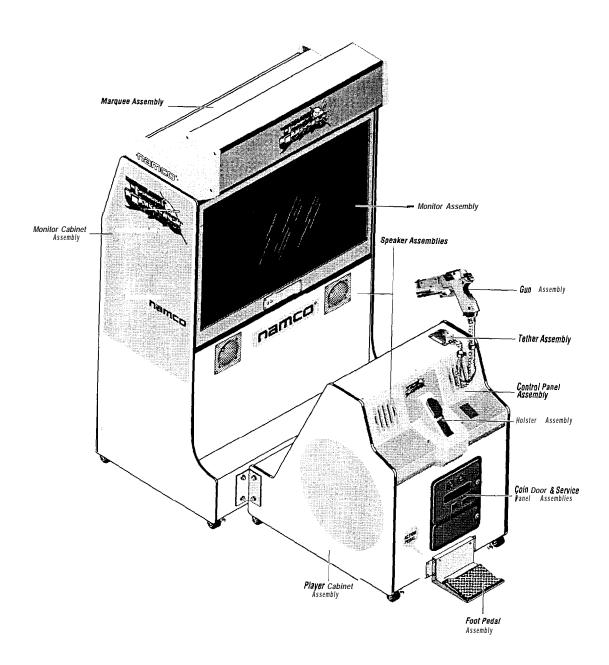
These "initial data" are the initial values of that adjustment These initial data may not be correct for the normal performance of each TV monitor. The visual check is necessary.



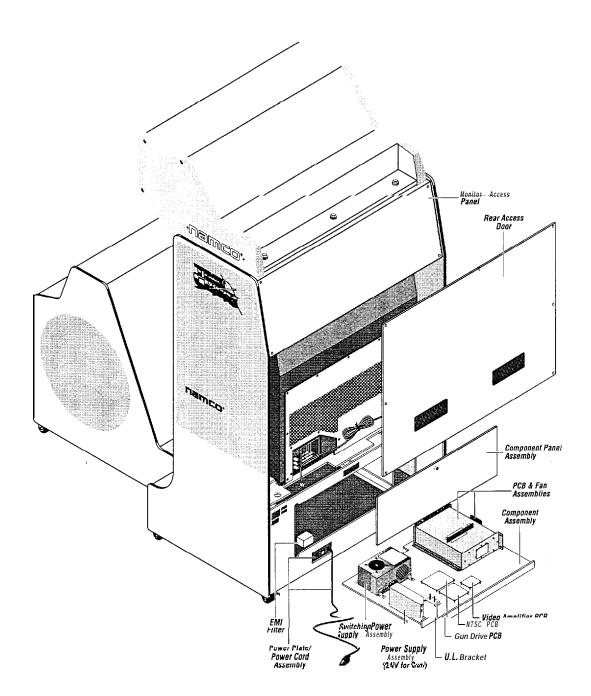
# APPENDIX B: PARTS LIST and ILLUSTRATIONS

Title	ı Page	
Major Assemblies (Front View)		
Major Assembiies (Rear Viewj	B-5	
Monitor Cabinet Assembly (Front View)	B-6	
Monitor Cabinet Assembly, (Rear View)	B-7	
Monitor Cabinet Assembly parts list		
Monitor Cabinet Assembly parts list (con't)		
Control Panel, Blue Gun & Tether Assemblies		
Pedal Assembly w/Harness		
PCB Set Assembly		
List of Harness Assemblies Power Plate (AC) Assembly Service Panel Assembly		
Blue Gun Assembly (detail)		

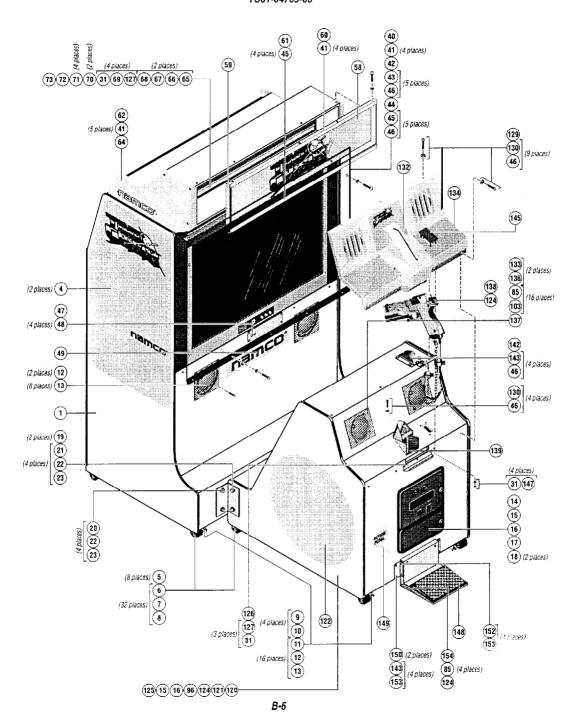
## TIME CRISIS 50" MONITOR, Major Assemblies (Front View)



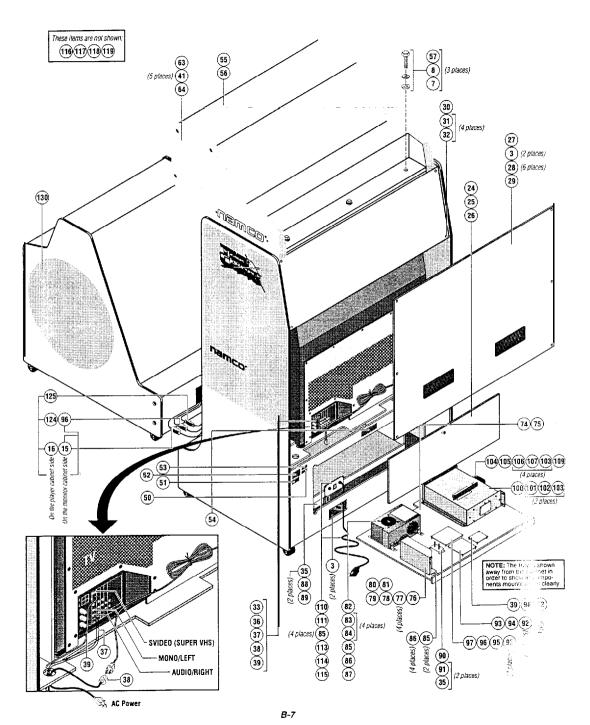
# TIME CRISIS 50" MONITOR, Major Assemblies (Rear View)



### TIME CRISIS 50" MONITOR, Cabinet Assembly (Front View)



### TIME CRISIS 50" MONITOR, Cabinet Assembly, (Rear *View*)



#### TIME CRISIS 50" MONITOR, Cabinet Assembly - TC01-04709-00

NO	PART NO	DESCRIPTION	QTY	NO	PART NO	DESCRIPTION	QTY
1	TC05-04786-00	MONITOR CABINET ASSEMBLY	1	46	VG20-02865-05	Washer; Hat. #10 Black Oxide	11
3	VG10-04741-00	Grill, Perforated (Bottom of Monitor Cabinet, use staples)	2	47	TC10-04909-00	Plate. Access, Magic Focus Button (HIT 2281	
4	TC40-04640-00	Decal, Side Panel	2	47a	TC10-05108-00	Plate, Access, Magic Focus Button (HIT 23 K)	÷
5	VG24-04933-00	Caster, 3 (4 lor monitor & 4 lor player cabinets)	8	48	VG20-02888-04	Screw Btn-Hd., Tmp-Prf, #8-32 x 1/4", Blk, Ox (HIT only	) 4
6	VG20-02860-126	Screw, Hex-Hd., 1/4-20 x 1°, Steel, Zinc	32	49	TC40-04648-00	Decal, Front Panel, Monitor (NAMCO)	1
7	VG20-02862-07	Washer, Split-Lock, 1/4", Steel, Zinc	32	50	TC46-04844-00	Label, U.L. Time Crisis, 50" Monitor	1
8	VG20-02864-07	Washer, Fl at ,1/4',Steel, Zinc	32	51	VG46-02653-00	Label, FCC	1
9	VG20-03/98-00	Leg Leweler, 1/2-13 x 2-1/2 (2 monitor & 2 player citric	i) 4	52	VG46-02654-00	Label, FBI WARNING	
10	RL10-02683-00	Plate, Leg Leveler, 1/2-13	4	53	vG46-02655-00	Label. Serial Number	1
11	VG20-02860-12	Screw, Hex-Hd., 1/4-20 x1 1, Steel, Zinc	16	5 4	VG44-03968-00	-Label. CAUTION, "Service Personnel ONL Y"	1
7	VG20-02862-07	Washer, Split-Lock, 1/4", Steel, Zinc	16	5 5	TC05-04785-00	MARQUEE ASSEMBLY	1
8	VG20-02864-07	Washer, Flat, 1/4", Steel, Zinc	16	56	TC63-04792-00	Cabinet, Marquee	1
12	VG10-04890-00	Grill, Speaker. Perforated	2	57	VG20-02860-32	Rdl. Hex 1/4-20 x 2", Steel, Zinc	3
13	VG20-04114-10	Screw, Ran-Hr. Wood, #R.v.3/R", "Rlack Gxide	Ą.	8	VG20-02864-07	Washer, Flat, 1/4", Steel, Zinc	3
14	TC83-04926-00	COIN DOOR ASSEMBLY, 2 SLOTS W/HARNESS	1	7	VG20-02862-07	Wesher: Split-Lock, 1/4", Steel. Zinc	3
15	TC50-04725-00	Harness Coin Door & Service, 50" Monitor	1	58	TC95-04855-00	Acrylic, Marquee Cover, 50" Monitor	1
16	TC50-04726-00	Harness, Coin Door & Service Ext., 50" Monitor	1	59	TC40-04650-01	Styrene, Time Crisis Marquee	1
17	DD05-04768-00	SERVICE PANEL ASSEMBLY	1	60	VG10-04745-00	Retainer, Marquee, Too	1
18	VG20-02896-06	Screw, Pan-Hd., Philips, #8-32 x 3/8*, Steel, Zinc	2	41	VG20-02906-10	Screw, Pan-Hd. Wood, #8 x 5/8*. Black. Oxide	4
19	TC10-04796-00	Bracket, Joint, Monitor/Player Cabinet	2	6.1	VG10-04746-00	Retainer. Marquee,Lower	1
20	VG20-04091-32	Boft, Hex-Hd., 3/8-16 x 2", Blk, Oxide (player cabinet)	4	45	VG20-02907-16	Screw, Pan-Hd, 10-24 x 1", Black, Oxide	4
21	VG20-04091-20	Bolt, Hex-Hd., 3/8-16 x 1-1/4", Black, Oxide (Monitor cabine	t) 4	62	VG90-04959-00	Plastic, Marquee, Left Side (Red)	1
22	VG20-02865-09	Washer, Flat 3/8", B1 ack. Oxide	8	63	VG90-04959-01	Plastic, Marquee, Right Side (Red)	1
23	VG20-02863-09	Washer, Split-Lock, 3/8", Black, Oxide	а	41	VG20-02906-10	Screw, Pan-Hd, Wood, #8x5/8", Black, Oxide	10
2 4	TC05-04895-00	COMPONENT PANEL ASSEMBLY (Bottom)	1	64	TC40-04924-00	Decal, Marquee Side (NAMCO) Red/Black	1
25	TC63-04887-00	Panel, Wood		65	VG57-03871-00	Lamp Fluorescent, 36"	2
26	VG26-04609-00	Lock, Rear Access Door		66	VG57-03870-00	Fixture, Fluorescent. 36	2
2 7	TC05-04957-00	REAR ACCESS DOOR (Middle)	1	67	VG44-03850-00	<b>Label</b> , Lamp Replacement	2
y	VG10J04741-00	GrillPartnrated Hack Panel (use staples)	2	68	VG44-02644-14	Label, Lamp Value, 115V, 30W	7
28	VG20-02897-48	Screw, Pan-HdPhilins, #10-24 v.2. Stool, Zinc	S	127	VG20-02897-16	Screw, Pan-Hd., #10-24 x 1", Steel, Zinc	4
29	VG20-02864-05	Washer, Flat, #10. Steel. Zinc	6	69	VG20-04772-05	Nut, Polymer, #10-24, Steel. Zinc	4
3 0	TC63-04979-00	PANEL MONITOR ACCESS (Top)	1	31	VG20-02864-05	Washer, Flat. #10, Steel, Zinc	4
31	VG20-02897-48	Screw, Pan- Hd. Philips, #10-24 x 2", Steel, Zinc	4	70	VG95-02117-00	Grommet. 7/8°, Dia. Hole	2
32	VG20-02864-05	Washer. Flat. #10 Steel, Zinc	4	71	GT57-02219-00	Lock Fluorescent	4
33	VG85-04816-00	MONITOR, REAR PROJECTION, 50" (HITACH	1) 1	72	TC50-04914-00	Harness, Fluorescent	1
33a	VG85-05446-00	Monitor. Rear Projection, 50 (HIT 50U x23BA)	1	73	TC50-04913-00	Harness. FluorescenExtension	1
33b	VG85-03945-00	Monitor: Rear Projection, 50" (MITS VS-5041/42)	1	7 4	TC05-04787-00	COMPONENT ASSEMBLY	1
36	TC50-04720-00	Harness. Speakers 50' Monitor (not shown)		75	TC63-04841-00	Shelf. Component Board	I
37	TC50-04721-00	Harness, to Theakerm 50' Mondon, (RCA jack)	1	76	VG88-04690-00	Power Supply, 24v (for gun)	1
38	AP50-03425-00	Harness. AC Power	1	77	VG20-03180-08	Screw, Pan-Hd., M3(8, Steel, Zinc	4
39	VG51-04028-02	Cable, Super VHS Video, 1M	1	78	VG10-04814-00	Bracket, 24V, Power Supply	2
40	VG95-04752-00	Cover, Monitor Agrillic (HIT 228),	1	79	VG20-02903-10	Screw, Pan-Hd. Wood, #8 x 5/8", Steel, Zinc	4
40a	TC95-05109-00	Cover, Monitor, Acrylin (HIT 22K, NITS-5041/42)	1	80	TC50-04735-00	Harness, AC Input (24V), 50° Monitor	<u> </u>
Cl	VG20-02900-10	Screw Pan-Hil Phillips, #8 x 5/8 Hack Oxide	4	81	TC50-04732-00	Harness, 24VPower, 50'Monittor	1_
42	TC10-04747-00	Betwar Upper	1	a2	VG88-01 615-00	Power Supply, Switching, 200W	
43	VG20-02901-12	Stitum - an Pag. Hall Philliprote Av. 314 (Caback Oxid	25	8 3	VG10-04612-00	Bracket, Mounting Power Supply	4
44	TC10-04748-00	Petainer, Lower (HIT 228, MITS 5041/42)	1	a 4	VG20-02903-10	Screw Pan-Hd., Wood, #8 x 5/8*, Steel, Zinc	4
44a	TC10-05107-00	Retainer, etc. (HIT 23K),	_!	a 5	CY50-03975-00	Harness, Power Cord, LeftPowerSuppl y	
44b	TC10-05107-01	°etainer; Right (HIT 23K)	1	a 6	TC50-04724-00	Harness DCPower, 50" Monitor	1
4.5	VG20-02901-16	Screw Pan-Hd 10-24 x 1", Black, Oxide	6	87	TC50-04727-00	Hamess, from DC Pow to RGB/NTSC PCB, 50" Moni	W

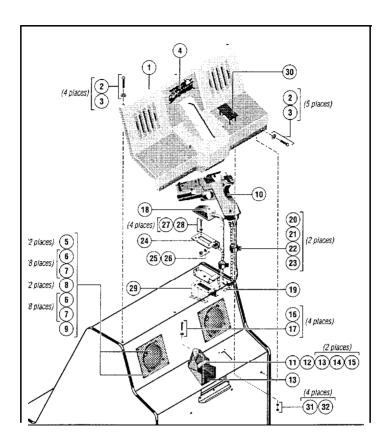
#### TIME CRISIS 50" MONITOR, Cabinet Assembly (Continued)

TC01-04709-00

NO	PART NO	DESCRIPTION	QTY	NO	PART NO	DESCRIPTION	QTY
88	VG78-00476-00	Filter, EMI, .25 Tabs	1	124	TC50-04730-00	Harness Gun & Pedal Extension, 50° Monitor	1
35	VG20-02903-12	Screw, Pan-Hil Wood, #8 x 3/4 Steel, Zinc	2	96	TC50-04729-00	Harness Can Drave to Can & Pedal, 50" Monitor	1
89	TC50-04733-00	Harness, EMI Out, 50" Monitor	1	16	TC50-04726-00	Harness. Coin Door & Service Ext., 50 Monitor	$\overline{}$
90	VG10-03811-00	Bracket, GroundLug. U. L.	1	1.5	TC50-04725-00	Harness, Coin Door & Service, 50" Monitor	1
91	VG20-02700-05	Nut, Kep, #10-24, Steel. Zinc	2	125	TC50-04722-00	Hanness, Fron Speaker Extension, 50° Monitor	1
35	VG20-02903-12	Screw, Pan-Hd., Wood, #8 x 3/4", Steel, Zinc	2	126	TC10-04744-00	Bracket. Lower. Control Panel	1
92	VG20-03579-00	Standoff, PCB	12	127	VG20-02897-16	Screw,Pan-Hd., 10-24 x 1", Steel, Zinc	3
93	VG84-01792-00	PCS, NTSC	1	31	VG20-02864-05	Washer, Flat. #10, Steel, Zinc	3
94	TC50-04727-00	Harness, RGB to NTSC PCB, 50" Monitor	1	129	TC90-04738-01	Control Panel w/Speaker Holes (plastic)	1
95	TC03-04886-00	PCS, Gun <b>Drive</b>	1	130	VG20-02889-16	Screw, Btn-Hd., Tmp-Prf, #10-24 x 11. Black, Oxide	e 9
96	TC50-04729-00	Hamess, Gan Drive to Gan & Redal. 50° Monitor	1	4 6	VG20-02865-05	Washer, Hat, #10, Black, Oxide	9
9'	TC50-04728-00	Harness, CPU to Que Drive PCB, 50° Minitor	1	132	TC40-04639-00	Decal, Panel, Instruction	1
98	VG15-04947-00	AS, Video Amplifier	1	133	CY54-03866-00	Speaker. 4 Ohm, 20W, 4" Sq.	2
100	TC05-04788-00	PC BOARD SET ASSEMBLY, TIME CRISIS	1	85	VG20-02903-10	Screw, Pan-Hd., Wood, #8 x 5/8", Steel, Zinc	16
101	VG20-02896-36	Screw, Par-Hd. Phillips, #8-32 x2-114'. Steel, Zin	2	103	VG20-02864-04	'Washer, Flat. #B, Steel, Zinc	16
102	VG20-02862-04	WasherSplit-Lock, #8, Steel, Zinc	2	136	TC10-04797-00	Grill, Speaker	2
i 03	VG20-02864-04	Washer, Flat, #8. Steel, Zinc	2	137	AP50-03385-00	Harness, Speaker	1
104	VG55-00060-00	Fan. Axial, 115V AC	1	138	PB03-03141-01	BLUE GUN ASSEMBLY	1
105	GT55-02248-00	Grill, Fan	1	124	TC50-04730-00	Harness, Gun& Pedal Extension	1
106	VG20-04712-00	Nut Well. #8-32 χ 1/2*, Steel. Zinc	4	139	PB90-03080-01	Holster, Gun	1
107	VG20-02896-40	ScrewPan-Hd., #8-32 x 2-1/2", Steet, Zinc	4	130	VG20-02889-16	Screw, Btn-Hd., Tmp-Prf, #10-24 x 1", Blk, 0x	4
103	VG20-02864-04	Washer, Hat. #8, Steel. Zinc	4	46	VG20-02865-05	Washer Hat. #10. Black. Oxide	4
109	RV50-04359-00	Harness, to Fan	1	142	TC05-04715-00	TETHER ASSEMBLY	1
110	DD05-04764-00	POWERPLATEASSEMBLY	1	143	VG20-02889-20	Screw, Btn-Hd., Tmp-Prf, #10-24 x 1-114'. Blk. 0 x	4
111	VG10-04681-00	Plate, Power AC	1	46	VG20-02865-05	-Washer: Hat. #10, Black, Oxide	4
85	VG20-02903-10	Screw, Pan-Hd., #8 x 5/81, Steel, Zinc	4	145	VG20-02903-10	Plate, Cover, Ctl mt, w/studs (covers Ctl mt hole)	1.1
113	VG20-02700-05	Kepnut, Hex, #10-24, Steel, Zinc	1	31	VG20-02864-05	Washer, Flat, #10, Steel, Zinc	4
114	VG51-01232-06	Power Cord, 3 Cond., #18 Awg, SJT, 6 Ft	1	147	VG20-02701-05	Nut, Hex #10-24, Steel, Zinc	4
		w/Mol ded Plug (for replacement useonly)		148	TC80-04571-00	FOOT PEDAL W/HARNESS ASSEMBLY	1
115	CY50-03998-00	Harness, Power Cord, Right Power Supply	1	149	TC40-04666 <b>-</b> 00	Decal, <b>Pedal instruction</b>	
116	HV50-04359-00	Ferrite Bead <i>(not shown)</i>	4	150	TC10-04716-00	Bracket. Foot Pedal	2
117	VG78-00198-00	Ferrite Bead(not shown)	2	143	VG20-02889-20	Screw, Btn-Hd., Tmp-Prf, #10-24 x 1-1/4", Bik, 0x	
118	VG78-00199-00	Housing Ferrite (not shown)	4	152		Screw. Skt-Hd., Philips, Tmp-Prf, M5 x 16, Blk $_{ m 0x}$	
119	TC50-04734-00	Harness, Main, 50 Monitor	1	153	VG20-02863-05	Washer, Split-Look, #10, Black, Oxide	3
120	TC05-04791-00	PLAYER CABINET ASSEMBLY	1	154	TC10-04813-00	Bracket, Foot Pedal Support	
121	TC63-04794-00	Cabinet, Player		85	VG20-02903-10	Screw, Particle-Board, #8 x5/8*, Steel, Zinc	4
122	TC40 <u>-04649-00</u>	Decal, Side Panel, Redestal Left	1	124	TC50-04730-00	Harness, Gun & Pedal Extension, 50" Monitor	1
123	TC40-04649-01	Decal, Side Panel. Pedestal. Right	1				

#### TIME CRISIS 50" MONITOR, Control Panel, Blue Gun & Tether Assemblies

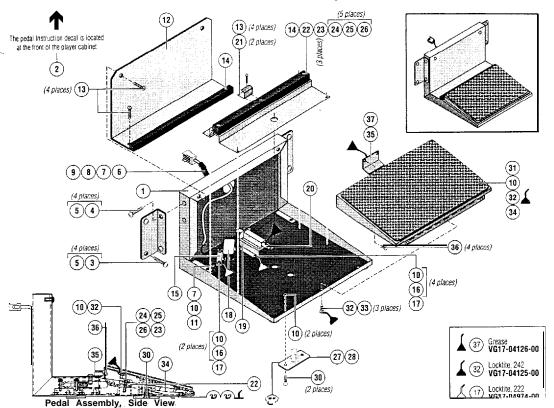
TC90-04738-01, PB03-03141-01 & TC05-04715-00



NO	HAPP NO NAMO	CO NO DESCRIPTION C	ΥT
1	TC90-04738-01	Control Panel w/Speaker Holes (plastic)	1
2	VG20-02889-16	Screw, Bln-Hd., Tmp-Prf, #10-24 x 1*, Black, Oxide	9
3	VG20-02865-05	Washer: Flat. #10, Black, Oxide	9
4	TC40-04639-00	Decal, Panel, Instruction	1
5	CY54-03866-00	Speaker, 4 Dhm, 20W, 4" Sq.	2
6	VG20-02903-10	Screw. Pan-Hd. Wood. #8 x 5/8", Steel, Zinc	16
7	VG20-02864-04	Washer: Flat, #8, Steel, Zinc	16
a	TC10-04797-00	Grill, Speaker	2
9	AP50-03385-00	Harness, Speaker	1
1 0	PB03-03141-01	BLUEGUNASSEMBLY	1
11	PB90-03080-01	Holster. Gun	I
12	TC96-04893-00	Bumper, Holster	1
13	TC11-04894-00	Spacer, Bumper	1
14	VG20-03339-06	Screw Btn-Hd. imp-Rd. #10-32 x 3/8°, Blk, 0x	2
15	VG20-02865-05	Washer: Flat. 110, Black, Oxide	2
16	VG20-02863-05	Washer, Split-Lock #10 Black Oxide	2

NO	HAPP NO NAM	CO NO DESCRIPTION	QTY
17	VG20-02865-05	Washer, Flat, #10,Black, Oxide	4
18	TC05-04715-00	TETHER ASSEMBLY	1
19	PB20-03154-00	Chain, 38 Links. #4, .12 Dia. Wire	1
20	PB10-03153-00	Clip	2
21	VG20-02888-06	Screw, Btn-Hd., Tmp-Prf, #8-32 x 3/8", Stl., Zinc	2
22	VG20-02864-04	Washer. Flat, #a	2
23	VG20-03322-04	Nut, Nylock, #8-32	2
24	TC10-04693-00	Plate, Mounting, Gun Tether (w/studfor cf	naint)
25	VG20-02864-04	Washer: Flat, #8, Steel, Zinc	1
26	VG20-02701-04	Nut. Hex, #8-32,Steel, Zinc	
27	VG20-02889-20	Screw, Btn-Hd., Tmp-Prf. #10-24 x 1-14, Blk, Ox	4
28	VG20-02865-05	Washer, Flat.#10.Black, Oxide	4
29	TC10-04692-00	Bracket, Tether (w/o mounting H/W)	
30	VG20-02903-10	Ptate, Cover, Ctl Pnl, w/studs (covers Ctl Pnl hole	e) 1
31	VG20-02864-05	Washer, Hat, #10, Steel, Zinc	4
32	VG20-02701-05	Nut, Hex, #10-24, Steel, Zinc	4

#### TIME CRISIS 50" MONITOR, Pedal Assembly w/Harness - TC80-04671-00

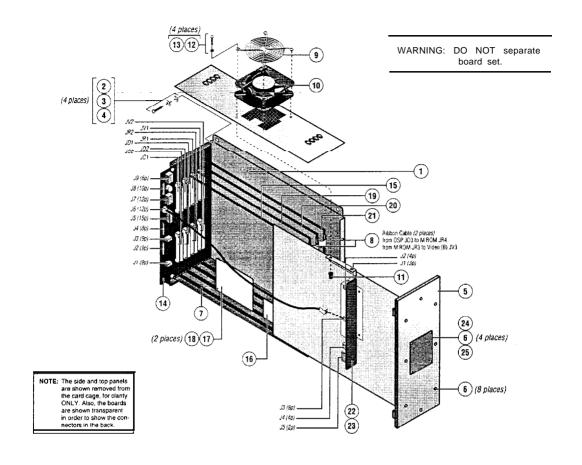


		NAMCO NO	DESCRIPTION Q	ΤV
				•
1	96-0145-00	TC10-04716-00	Bracket, Foal Pedal	1
2		TC40-04666-00	Decal, Pedal Instruction	1
3		VG20-02889-20	ScrevBtn-Hd., Tmp-Prl. #10-24 x 1-1/4 Blk, 0	<b>4</b>
4		VG20-04930-16	Screw, Socket-Hd., Tmp-Pri, Philips, M5x16, Blk, Ox	4
5		VG20-02863-05 W	lasher, Split-Lock, #10, Bl ack, Oxide	8
ĥ		TC50-04730-00	Harness, Gun & Pedal Extension, 50° Monitor	1
7	96-0149-00	TC50-04729-00	Harness, Gun Drive to Gun & Pedal, 50" Monitor	1
8	43-0127-00	GT26-02439-00	Tie Holder	1
9	43-1013-00	GT10-02231-00	Wire Tie	
10	43-0175-00	VG20-04969-00	Nut, Kep, M4,Steel, Zinc	1
11	43-0324-00	VG20-04970-00	Washer, Lock, External Tooth, 4, Stf, Zinc	1
12	96-0134-00	TC10-04813-00	Front Cover	1
' 3	43-0426-00	VG20-04971-12	Screw, Pan-Hd, Torx, Tmp-Prt, M5 x 12, Chrome PI	4
14	96-0153-00	TC80-04671-01	Rubber, Bumper	1
15	96-0140-00	TC80-04671 <b>-</b> 02	Bracket, Switch Mounting	Ι
10	43-0175-00 V	/G20-04969-00 Nu	t. Kep, M4 Steel, Zinc	2
16	43-0066-00	VG20-04969-04	Washer Flat, M4	2
18	96-0148-00	TC80-04672-03	Actuator and Switch Assembly	1
19	96-0135-00	TC80-04672-04 PI	lunger Housing	1
10	43-0175-00	VG20-04969-00	Nut, Kep, M4 Steel, Zinc	4
16	43-0066-00	VG20-04969-04	Washer Flat, M4	4

NC	HAPP NO	NAMCO NO	DESCRIPTION	γTΥ
20	96-0136-00	TC80-04671-05	Switch, Plunger	1
21	96-0150-00	TC80-04671-07	Plunger, Rubber Stop,	2
13	43-0426-00	VG20-04971-12	Screw, Pan-Hd. Toox, Timp-Prf, M5 x 12, Chrome P	1 1
14	96-0153-00	TC80-04671-01	Rubber, Burnper	1
22	96-0138-00	TC80-04671-06 Bu	umper Pad	1
23	96-0143-00	TC80-04671-08	Spacer, Bumper Pad	3
24	43-0197-00	VG20-04971-12	Screw Pan-Hil Philips, M3 x 16, Stl., Zinc	5
25	43-0428-00	GT20-02257-00	Washer, Flat, M3, Steel, Zinc	5
26	43-0429-00	GT20-02258-00	Washer, Split-Lock, M3, Steel, Zinc	5
27	96-0141-00	TC80-04571-08	Spring, Compression	1
28	96-0147-00	TC80-04671-09	Spring, Compression unger	
29	96-0139-00	TC80-04671-10	Plate, Spring Mounting	1
30	43-0424-00	VG20-04972-14	Screw, Hat-Hil Philips, M5 x 14, Stl, Zn	2
10	43-0175-00	VG20-04969-00	Nut, Kep, M4, Steel, Zinc	2
31	96-0142-00	TC80-04691-13	Floor, Plate Assembly	1_
10	43-0175-00	VG20-04969-00	Nut, Kep, M4, Steel, Zinc	1
33	43-0425-00	VG20-04973-06 Sc	rew, Truss-Hd., Philips, M5 $_{ imes 6}$ Bik $_{ imes x}$	3
34	96-0144-00	X80-04671-14	Pivot Assembly	1
35	96-0137-00	TC80-04671-11	Plate, Switch Actuator	
36	43-0427-00	TC80-04671-12	Rivet, M3	4

### TIME CRISIS 50" MONITOR, PCB Set Assembly

TC05-04788-00



ITEM	PART NO.	DESCRIPTION C	ΥT
1	CY06-03909-00	Card cage	1
2	VG20-02896-36	Screw Pan-Hd., Philips, #8-32 x 2-1/4", Stl. Zn	4
3	VG20-02862-04	Washer. Split-Lock,#8,Steel,Zinc	4
4	VG20-02864-04	Washer, Flat #8. Steel Zinc	4
5	CY06-03910-00	Card <b>Cage Cover</b>	1
6	VG20-04267-01	4mm Dia x6 mm Lg. TRS-Hid Philips Screw	12
7	VG06-03595-00	Card Cage Slide	1
a	CY50-04117-00	Ribbon Cable for adjacent PC3s	2
9	GT55-02248-00	Fan Grill	1
10	VG55-00060-00	Fan, Axial, 115V AC	
11	VG20-04712-00	Nut Welf, 8-32(112	4
12	VG20-02896-40	Screw Pan-Hd., Philips #a-32 x 2-1/2 Stl Zn	4
13	VG20-02864-04	Washer Flat, #8, Steel, Zinc	4

PART NO.	DESCRIPTION	QTY
A203-04571-00	Mother PC6 Assembly (8646960602)	
TC03-04845-00	CPU (B) PCB Assembly (8646962600	)
TC03-04847-00	MPM (F) PCB Assembly (24479656	)
TC03-04849-00	V159 Gun. Point PCB Assembly (24479601	02;
VG20-03071-04	Standoff, PCB Miniature Nyl on	•
000364821-w	DSP PCB Assembly (8646960302)	
TC03-04846-00	M ROM PCB Assembly (24479654)	_
TC03-04848-00	Video (BPCB Assembly (8646961200	)
TC03-04851-00	Audio Amp 2 Channel PCB Assy (8647961	); l
TC50-04723-00	Harness Audio, 50 Monitor	
TC03-04850-00	Joint PCB Assembly (244797210)	
TC50-04952-00	Harness GuPosition to Joint PCB	
	A203-04571-00 TC03-04845-00 TC03-04847-00 TC03-04849-00 VG20-03071-04 000364821-w TC03-04846-00 TC03-04848-00 TC03-04851-00 TC03-04850-00	A203-04571-00 Mother PC6 Assembly (8646960602)  TC03-04845-00 CPU (B) PCB Assembly (8646962600  TC03-04847-00 MPM (F) PC8 Assembly (24479658  TC03-04849-00 V159 Gun Point PCB Assembly (24479651  V620-03071-04 Standoff, PCB Ministure Nyl on  000364821-w DSP PCB Assembly (8646960302)  TC03-04846-00 M ROM PCB Assembly (24479654)  TC03-04846-00 Video (BPCB Assembly (8646961200)  TC03-04851-00 Audio Arrip 2 Channel PCB Assy (8647961)  TC03-04723-00 liamss Audio, 30 Monitor  TC03-04850-00 Joint PCB Assembly (244797210)

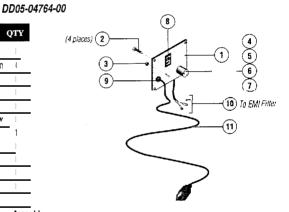
#### TIME CRISIS 50" MONITOR, List of Harness Assemblies

NO	PART NO	DESCRIPTION	QTY	NO	PART NO	DESCRIPTION	QTY
1	CY50-03975-00	Harness, Power Cord, Lett Power Supply	1	16	TC50-04724-00	Harness, DC Power 50" Monitor	1
2	CY50-03998-00	Harness, Power Cord, Right Pwr Supply	1	17	TC50-04735-00	Harness AC Input (24V), 50' Monitor	1
3	S251 01340-00	Power Cord, 3 Cond.#8 Awg, SJT. 6Ft,w/Molde	Pl ug 1	18	TC50-04732-00	Harness, 24V Power, 50* Monitor	1
4	TC50-04720-00	Harness speerer: 50" Monitor	1	19	TC50-04725-00	Harness, Coin Door & Service Panel, 501 Monitor	1
5	TC50-04915-00	Harness, Speaker	1	20	TC50-04726-00	Harness, Coin Door Extension & Service Panel, 50' Mo	onitor 1
6	TC50-04722-00	Harness, Front Speaker Ext., 50° Monitor	1	21	CY50-03717-00	Harness, Service Panel	1
7	AP50-03425-00	Harness, TV Power	1	22	TC50-04727-00	Harness RCB to NISC PCB 50" Monitor	1
8	VG51-04028-00	Cable, Super VHS	1	23	TC50-04728-00	Harness. CPU to Cun Drive PCB, 50" Monitor	1
9	TC50-04721-00	Harness, to TV Speakers, 50° Monitor	1	2 4	TC50-04733-00	Harness, EMI Out. 50" Monitor	- 1
10	TC50-04729-00	Harness, Gun Drive to Gun & Pedal, 50° Monitor	1	25	TC50-04734-00	Harness, Main, 50" Monitor	1
11	TC50-04730-00	Harness, Gun & Pedal Extension, 50" Monitor	1	26	TC50-04916 -00	Harness, AGB, Main PCB to Video Amp	- 1
12	TG50 04731 00	Harness, Pedal, 50° Monitor	1	2 1	RV50-0435900	Harness, ToFan	- 1
13	TC50-04914-00	Harness Fluorescent	1	28	AP60-04271-00	Harness, Golfar Bill	1
14	TC50-04913-00	Harness, Fluorescent Extension	1	29	TC50-04951-00	Harness, DC Adapter to Video Amp PCB, 50* Monitor	1
15	TC50-04723-00	Harness, Audio, 50° Moniter	1	30	TC50-04952-00	Harness, Gun Position to Joint PCB	1

TIME CRISIS 50" MONITOR, Power Plate (AC) Assembly

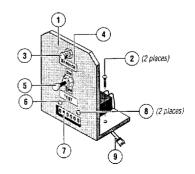
NO	PART NO	DESCRIPTION	QTY
1	VGI 0- 04681- 00	Plate Power AC	1
2	VG20-02903-10	Screw, Pan-Hd., Philips, #8 x 5/8*, Steel, Zn	4
3	VG20-02700-05	Kepnut, Hex, 10-24. Steel. Zinc	- 1
4	VG52-03584-10	Fuse, 7 Amp, 250V, Stow Blow	1
5	VG52-03365-00	Ruse Holder. Panel Mount.	1
6	VG44-02644-18	Label, Fuse Value, 7 Amp, 250V, S1 owBiow	1
7	VG <b>44-</b> 0385-00	Label Fuse <b>Replacement</b>	1
8	VG53-04683-00	Switch, Rocker, DPST (ON/OFF)	1
3	VG95-02122-02	StrainRelief,PowerCord(Heyco,7K-2)	1
10	CY50-03998-00	Harness, Power Cord Rt Power Supply	- 1
11	VG51-01232-06	Rower Card.3 Cond., #18 Awg, SJT, 6 Ft,	1

NOTE: Item 11 is not part of Power Plate Assembly.

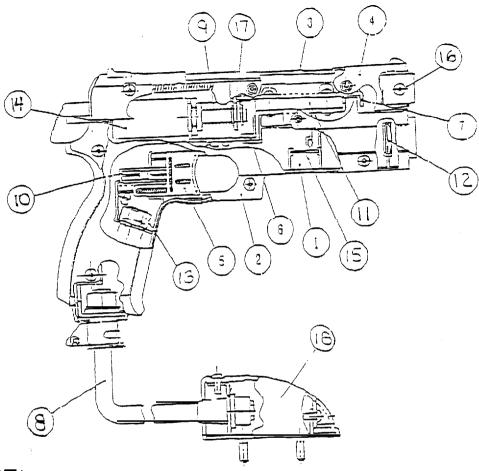


### TIME CRISIS 50" MONITOR, Service Panel Assembly DD05-04768-00

NO	PART NO	DESCRIPTION QTY
1	VG10-04684-00	Bracket ServicePanel
2	VG20-02896-06	Screw, Par-Hd., Philips, Ptd-Bd., #8 x 3/8", Stl, Zinc 2
3	GT53-02052-00	Switch, Mini, Push (Service)
4	VG44-02702-01	Label. "SERVICE
5	GT53-00756-00	Toggle Switch, SPST (Test)
6	VG44-02702-00	Label, *TEST
7	VG83-02094-00	Cain Meter
8	VG20-02894-06	Screw. Pan-Hd. Philips, 4-40 x 3/8" Stl. Zn 2
9	CY50-03717-00	Harness, Sérvic <b>e</b> Panel



## TIME CRISIS, 50" MONITOR, Blue Gun Assembly PB03-03141-01



0	PART NUMBER	DESCRIPTION	YO.	PART NUMBER	DESCRIPTION
l. 3	PB09-03432-00	GUN COVER, LEFT, BLUE	10.	PB09-296-421	TRIGGER SPRING
-	PB09-03433-00	GUN COVER, RIGHT, BLUE	11.	PB10-04835-00	RAIL SLIDE
•	PB09-03428-00	GUN SLIDE, LEFT, BLUE	12.	PB09-296-426	LENS
).	PB09-03429-00 PB90-04836-01	GUN SLIDE, RIGHT, BLUE TRIGGER, BLUE	13	PR09_000_778 PB09_004-056	SOLENOID
	PB10-04669-00	BRACKET, SOLENOID	15.	PB09-296-467	SENSOR
	PB10-04670-00	SLIDE GUIDE, SOLENOID	16.	PB21-04904-00	GUN HARDWARE
-	PB09-296-401	GUN CORD HARNESS ASSY	17.	PB95-04942-00	SPACER
	PB09-296-420	BACK SPRING	18.	PB90-05447-00	CONNECTOR COVER

APPENDIX C: WIRING DIAGRAM

